

(Sem-1/FYUGP BA ) MDC-ICT

2023

MDC

Paper : MDC0100703

Information and Communication Technology-1

Time: 2 Hours

Full Mark: 45

*The figures in the margin indicate full marks for the question.*

**Q.1 Give short answer of the following questions: 1x5=5**

- a) EEPROM stands for
- b) What is system software?
- c) Who invent first electronic digital computer?
- d) What is a browser?
- e) Name the super computers developed in India.

**Q.2 Give the answers of the following questions: (Any Five)**

2x5=10

- a) What is MODEM? How does it work?
- b) What are the hardware components?
- c) What do you mean by HTTP?
- d) Write a short note on e- mail.
- e) List the differences between the Analog computers and digital computers.
- f) Convert  $10101_2 = ?_{10}$
- g) Convert  $172_{10} = ?_2$
- h) State difference between Input and output devices?
- i) What are the advantages of transistor over vacuum tubes?
- j) What is internet? Write one advantage and disadvantage of internet.

**Q.3 Give the answer of the following questions: (Any Four)**

5x4=20

- a) Explain application and system software with example.

- b) Explain the basic components of CPU with block diagram.
- c) Explain the following topics (Any two)
  - (i) Hub
  - (ii) Switch
  - (iii) Router
  - (iv) Repeater
  - (v) Bridge
- d) What is storage device? Explain primary and secondary storage device with example.
- e) Write the difference between web browser and webpage?
- f) What is computer network? Explain its merits and demerits?
- g) What is number system? Explain octal and hexadecimal number system?
- h) White short note on: (Any two)
  - (i) Charles Babbage
  - (ii) Abacus
  - (iv) Herman Hollerith
  - (v) John Von Neumann
  - (v) EDCAC

**Q4. Give the long answer for the following questions :**

(Any One)

10x1=10

- a) What is OSI model? Explain the function and protocol and service of each layer?
- b) (i) Discuss the advantages of the use of the ICT in education.  
(ii) Explain the factors that facilitate ICT learning.
- c) What do you mean by generation of computer? Explain the technologies used in different generation of computers.
- d) Define computer system. Explain the characteristics of a computer.

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